

**GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:2432
ANSWERED ON:23.08.2013
ELECTRICITY STORAGE TECHNOLOGY
Deo Shri Kalikesh Narayan Singh

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether the Government proposes to develop electricity storage technologies for the increased renewable energy generation envisaged in the 12th five year plan;
- (b) if so, the details thereof;
- (c) whether any energy storage technologies are currently being used for the renewable energy generated in the country; and
- (d) if so, the details thereof, project-wise?

Answer

MINISTER FOR NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a)&(b): Development of Electricity Storage Technologies for use in renewable energy systems is one of the thrust areas of research under the R&D policy of Ministry of New and Renewable Energy. Ministry has already completed a R&D project on design and development of batteries for Solar Photo-Voltaic Applications under which various lead acid batteries were studied and Indian Standards for batteries for use in Solar Photo-Voltaic Applications were developed.

(c)&(d): Lead Acid Batteries are being used as energy storage device in almost all off-grid projects of capacity up-to 100kWp. In addition, lithium-ion and vanadium redox batteries have also been used in a few Solar Photo-Voltaic Systems in the country.